

# Work Order ID 108507

\*108507\*

Page 1

October-17-13 1:41:46 PM

Item ID: D350-689-013

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Stop

\*NS2\*

Item Name: Floor Provisions

Start Date: 10/17/13 Start Qty: 1.00

\*1\*

Cust Item ID:

Required Date: 10/17/13 Req'd Qty: 1.00

\*1\*

Customer:

Reference:

Run Start

\*NR1\*

Approvals: Process Plan: MLS

Date: 13-10-17

Tooling:

Date:

Stop

\*NR2\*

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

DSI9588

B

IIN D350-689

B

100

0.00

\*100\*

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy D350-689 bluefile & type labels per PPP D350-689-013 CHG 005

DAS  
6  
9-89

13/12/17

101

Pick Kit

0.00

\*101\*

Packaging

Memo

0.00

Packaging

1x  
DAS  
28  
9-89

13-12-3

DAS  
28  
9-89

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|   |             |             |   |   |                          |   |                        |                     |   |  |  |
|---|-------------|-------------|---|---|--------------------------|---|------------------------|---------------------|---|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____  |             |             |   | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                          | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |                        |                     |   |  |  |
| <b>Root Cause</b>   | <b>Date</b> | <b>Step</b> | <b>Qty</b>  | <b>Description of work order update or Non-conformance</b>  | <b>Initial Chief Eng</b> | <b>Action Description</b>   | <b>Sign &amp; Date</b> | <b>Verification</b> | <b>QC Inspector</b>   |  |  |
| Doc/Data <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Equip/Tooling <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Operator <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Material <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Setup <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Other <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Process <input type="checkbox"/>  |             |             |   |   |                          |   |                        |                     |   |  |  |
| Supplier <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Training <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| Unapproved <input type="checkbox"/>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| <b>FAULT CATEGORY</b>   |             |             |   |   |                          |   |                        |                     |   |  |  |
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube |             |             | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio |   |                          | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions   |                        |                     | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |  |  |

October-17-13 1:41:46 PM

Page 2

Q13-12-11

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |   |                   |                    |             |              |              |
| Operator      |      |      |     |   |                   |                    |             |              |              |
| Material      |      |      |     |   |                   |                    |             |              |              |
| Setup         |      |      |     |   |                   |                    |             |              |              |
| Other         |      |      |     |   |                   |                    |             |              |              |
| Process       |      |      |     |   |                   |                    |             |              |              |
| Supplier      |      |      |     |   |                   |                    |             |              |              |
| Training      |      |      |     |   |                   |                    |             |              |              |
| Unapproved    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

| Landing Gear  | General                                 | Other  |
|---|---|--|
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              |
|   |   | <input type="checkbox"/> Ovalized                        |
|   |   | <input type="checkbox"/> Over/Under tolerance            |
|   |   | <input type="checkbox"/> Part Incorrect                  |
|   |   | <input type="checkbox"/> Part Lost/Missing               |
|   |   | <input type="checkbox"/> Part Moved                      |
|   |   | <input type="checkbox"/> Positioned Wrong                |
|   |   | <input type="checkbox"/> Power Loss/Surge                |
|   |   | <input type="checkbox"/> Pressure/Forced                 |
|   |   | <input type="checkbox"/> Temperature/Cure                |
|   |   | <input type="checkbox"/> Weld                            |
|   |   | <input type="checkbox"/> Wrong Stock Pulled              |
|   |   | <input type="checkbox"/> Other                           |

# Picklist Print

October-17-13 1:41:44 PM

Page 1

Work Order ID: 108507  
Parent Item: D350-689-013  
Parent Item Name: Floor Provisions

Start Date: 10/17/13

Required Date: 10/17/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP rev D 06.02.07 Re-format ec  
IPP rev E 06.02.28 Fixed typo ec  
IPP rev F 07.01.02 per dsi 9311 ec  
D3033-1 DD verf:EC IPP REV;H 11.11.17 PER IIN REVB DD VERF;EC IPP  
REV:I 11.11.24 AS PER ECN11-674 DD VERF:EC IPP REV:J 12.11.20 AS PER DSI9588  
REV.B DD VERF:JLM

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand  | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued    | Status  |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|-----------------|-------------|--------------|---------------|-------------------|---------|
| D4575-8<br>Doubler              | DAS<br>6<br>9-89       | Manufactured  | No          |                     |                  | 110             | Each               | 1.0000          | 1           | 1            |               | DAS<br>28<br>9-89 | 13-12-3 |
|                                 |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                   |         |
|                                 |                        |               |             | ST256               |                  | 1               |                    |                 |             |              |               |                   |         |
|                                 |                        |               |             | 100805              |                  | 1               |                    |                 |             |              |               |                   |         |
| D3025-1<br>Beam                 | DAS<br>6<br>9-89       | Manufactured  | No          |                     |                  | 110             | Each               | 3.0000          | 1           | 1            |               | DAS<br>28<br>9-89 |         |
|                                 |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                   |         |
|                                 |                        |               |             | ST177               |                  | 3               |                    |                 |             |              |               |                   |         |
|                                 |                        |               |             | 95370               |                  | 3               |                    |                 |             |              |               |                   |         |
| D4575-1<br>Beam                 | DAS<br>6<br>9-89       | Manufactured  | No          |                     |                  | 110             | Each               | 5.0000          | 1           | 1            |               | DAS<br>28<br>9-89 |         |
|                                 |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                   |         |
|                                 |                        |               |             | ST177               |                  | 5               |                    |                 |             |              |               |                   |         |
|                                 |                        |               |             | 101084              |                  | 3               |                    |                 |             |              |               |                   |         |
|                                 |                        |               |             | 103070              |                  | 2               |                    |                 |             |              |               |                   |         |
| D3027-1<br>Clip                 | DAS<br>6<br>9-89       | Manufactured  | No          |                     |                  | 110             | Each               | 10.0000         | 1           | 1            |               | DAS<br>28<br>9-89 |         |
|                                 |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                   |         |
|                                 |                        |               |             | ST023               |                  | 10              |                    |                 |             |              |               |                   |         |
|                                 |                        |               |             | 96360               |                  | 10              |                    |                 |             |              |               |                   |         |

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause                             | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |   |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Setup <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Other <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |   |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |   |                   |                    |             |              |              |

### FAULT CATEGORY

|   |   |   |  |   |
|---|---|---|--|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|---|---|---|--|---|

# Picklist Print

October-17-13 1:41:45 PM

Page 2

Work Order ID: 108507  
Parent Item: D350-689-013  
Parent Item Name: Floor Provisions

Start Date: 10/17/13

Required Date: 10/17/13

Start Qty: 1.00

Required Qty: 1.00

|                       |                 |                |                  |   |                     |
|-----------------------|-----------------|----------------|------------------|---|---------------------|
| D3027-3<br>Clip       | Manufactured    | No             | 110 Each 10.0000 | 1 | DAS 28 9-89 13-12-3 |
| DAS 6 9-89            | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u>  |   |                     |
|                       | ST023           | 10             |                  |   |                     |
|                       | 103088          | 9              |                  |   |                     |
|                       | 86972           | 1              |                  |   |                     |
| D3027-5<br>Clip       | Manufactured    | No             | 110 Each 10.0000 | 1 | DAS 28 9-89         |
| DAS 6 9-89            | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u>  |   |                     |
|                       | ST023           | 10             |                  |   |                     |
|                       | 102841          | 10             |                  |   |                     |
| D3027-7<br>Clip       | Manufactured    | No             | 110 Each 41.0000 | 4 | DAS 28 9-89         |
| DAS 6 9-89            | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u>  |   |                     |
|                       | ST023           | 41             |                  |   |                     |
|                       | 102929          | 4              |                  |   |                     |
|                       | 106800          | 37             |                  |   |                     |
| D3032-1<br>Spacer     | Manufactured    | No             | 110 Each 10.0000 | 1 | DAS 28 9-89         |
| DAS 6 9-89            | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u>  |   |                     |
|                       | ST177           | 10             |                  |   |                     |
|                       | 96165           | 10             |                  |   |                     |
| D3033-1<br>Seat Track | Manufactured    | No             | 110 Each 4.0000  | 2 | DAS 28 9-89         |
| DAS 6 9-89            | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u>  |   |                     |
|                       | ST177           | 4              |                  |   |                     |
|                       | 102967          | 4              |                  |   |                     |
| D3234-1<br>Doubler    | Manufactured    | No             | 110 Each 3.0000  | 1 | DAS 28 9-89         |
| DAS 6 9-89            | <u>Location</u> | <u>Loc Qty</u> | <u>Loc Code</u>  |   |                     |
|                       | ST177           | 3              |                  |   |                     |
|                       | 88274           | 3              |                  |   |                     |

October-17-13 1:41:45 PM

Shop Packet Print

Page 2

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |   |                   |                    |             |              |              |
| Operator      |      |      |     |   |                   |                    |             |              |              |
| Material      |      |      |     |   |                   |                    |             |              |              |
| Setup         |      |      |     |   |                   |                    |             |              |              |
| Other         |      |      |     |   |                   |                    |             |              |              |
| Process       |      |      |     |   |                   |                    |             |              |              |
| Supplier      |      |      |     |   |                   |                    |             |              |              |
| Training      |      |      |     |   |                   |                    |             |              |              |
| Unapproved    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

| Landing Gear  | General                                 | Other  | Other   |
|---|---|--|---|
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           | <input type="checkbox"/> Ovalized             |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        | <input type="checkbox"/> Over/Under tolerance |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           | <input type="checkbox"/> Part Incorrect       |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Lost/Missing    |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     | <input type="checkbox"/> Part Moved           |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      | <input type="checkbox"/> Positioned Wrong     |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         | <input type="checkbox"/> Power Loss/Surge     |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          | <input type="checkbox"/> Pressure/Forced      |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              | <input type="checkbox"/> Temperature/Cure     |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 | <input type="checkbox"/> Weld                 |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              | <input type="checkbox"/> Wrong Stock Pulled   |
|   |   |  | <input type="checkbox"/> Other                |



# Picklist Print

October-17-13 1:41:45 PM

Page 3

Work Order ID: 108507  
 Parent Item: D350-689-013  
 Parent Item Name: Floor Provisions

Start Date: 10/17/13

Required Date: 10/17/13

Start Qty: 1.00

Required Qty: 1.00

D32345  
 Spacer  
 MS21059113  
 Nut Plate

DAS  
 6  
 9-89

Manufactured No  
 Purchased No

110 Each 0.0000  
 110 Each 150.0000

2 2  
 B.102907  
 12 12  
 DAS 28 13-12-3  
 9-89  
 DAS 37 9-89

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| ST316    | 139     |          |
| 124291   | 7       |          |
| 125535   | 38      |          |
| m126275  | 94      |          |
| ST506    | 11      |          |
| 124308   | 11      |          |

127304

DAS  
 28  
 9-89

DAS  
 37  
 9-89

MS24693-S273  
 Screw

DAS  
 6  
 9-89

Purchased No

110 Each 582.0000

2 2

DAS  
 28  
 9-89

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| ST301    | 582     |          |
| 100151   | 482     |          |
| 117291   | 100     |          |

2x

DAS  
 37  
 9-89

MS27039-1-10  
 SCREW

DAS  
 6  
 9-89

Purchased No

110 Each 640.0000

6 6

DAS  
 28  
 9-89

| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| GA       | 100     |          |
| 120449   | 100     |          |
| ST305    | 112     |          |
| 122815   | 1       |          |
| 124859   | 100     |          |
| 125654   | 11      |          |
| ST308    | 18      |          |
| 123522   | 18      |          |
| ST506    | 410     |          |
| 124326   | 10      |          |
| m126474  | 400     |          |

6x

DAS  
 37  
 9-89

October-17-13 1:41:45 PM

Shop Packet Print

Page 3

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |  |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |
|--|---|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|--|------------------------------------|--|------------------------------------|------------------------------------|-----------------------------------|--|--|--------------------------------------|--|--|----------------------------------|--|--|--------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Skid-tube <input type="checkbox"/></td> <td style="width: 33%;">Crosstube <input type="checkbox"/></td> <td style="width: 33%;">Water Jet <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Other <input type="checkbox"/></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |  | Engineering <input type="checkbox"/> |  |  | Quality <input type="checkbox"/> |  |  | Other <input type="checkbox"/> |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>   |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>   |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>   |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>  |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |
|  |   | Engineering <input type="checkbox"/>   |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |
|  |   | Quality <input type="checkbox"/>   |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |
|  |   | Other <input type="checkbox"/>   |                                    |                                    |                                    |                                    |                                    |  |  |                                    |  |                                    |                                    |                                   |  |  |                                      |  |  |                                  |  |  |                                |

| Root Cause                             | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |   |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Setup <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Other <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |   |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |   |                   |                    |             |              |              |

### FAULT CATEGORY

|   |   |   |
|---|---|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |
|---|---|---|

|  |   |
|--|---|
| <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |
|--|---|

# Picklist Print

October-17-13 1:41:45 PM

Page 4

Work Order ID: 108507  
Parent Item: D350-689-013  
Parent Item Name: Floor Provisions

Start Date: 10/17/13

Required Date: 10/17/13

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0332J  
Washer

Purchased No

110 Each 1,038.0000 6

6  
DAS  
28  
9-89

13-12-3

Location

Loc Qty

Loc Code

|         |      |  |
|---------|------|--|
| ST293   | 37   |  |
| 125268  | 37   |  |
| ST294   | 1001 |  |
| 122973  | 75   |  |
| 125044  | 41   |  |
| m125807 | 885  |  |

127431

DAS  
6  
9-89

DAS  
1  
9-89

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause                             | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |   |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Setup <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Other <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |   |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |   |                   |                    |             |              |              |

### FAULT CATEGORY

| Landing Gear  | General                                 | Other  | Other   |
|---|---|--|---|
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           | <input type="checkbox"/> Ovalized             |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        | <input type="checkbox"/> Over/Under tolerance |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           | <input type="checkbox"/> Part Incorrect       |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Lost/Missing    |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     | <input type="checkbox"/> Part Moved           |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      | <input type="checkbox"/> Positioned Wrong     |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         | <input type="checkbox"/> Power Loss/Surge     |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          | <input type="checkbox"/> Pressure/Forced      |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              | <input type="checkbox"/> Temperature/Cure     |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 | <input type="checkbox"/> Weld                 |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              | <input type="checkbox"/> Wrong Stock Pulled   |
|   |   |  | <input type="checkbox"/> Other                |

# DART SERVICE INSTRUCTION

## TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. B AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV. 1

REF. TCCA STC: SH02-33  
REF. FAA STC: SR01620NY  
REF. EASA STC: EASA.IM.R.S.01453  
REF. TCA STC: 2005S03-09

### 1.0 PURPOSE

For D350-689-011/-013 at CHG 006/005 and later and D350-689-021/-023 Kits at CHG 005/004 and later, the D3026-1 Channel has been replaced with the D4575-1 Beam and D4575-3 Doubler and the D3234-3 Doubler has been removed. Consequently, the installation instructions for D350-689-011/-013 at CHG 006/005 and D350-689-021/-023 at CHG 005/004 are updated per Section 2.0 of this Service Instruction. The parts list update is shown in Section 4.0 of this Service Instruction. There is a negligible change to the weight and balance.

### 2.0 INSTALLATION CHANGES FOR D350-689-013

Section 3.9, *INSTALLATION OF D350-689-013 FLOOR PROVISIONS KIT* (pages 4 and 5 of IIN-D350-689), is changed as follows:

#### Item 3.3.15 is:

If there is an existing stringer at LBL 27.33, it will need to be removed from that location. Locate D4575-1 Beam, D4575-3 Doubler, and D3032-1 Spacer as shown in Figure 1 of this Service Instruction. Transfer drill existing holes from the aircraft floor to the D4575-1 Beam, D4575-3 Doubler, and D3032-1 Spacer. Ensure 1.0" to 1.5" rivet pitch and add additional holes if required. If there is no existing stringer, locate D4575-1 Beam, D4575-3 Doubler, and D3032-1 Spacer as shown in Figure 1 of this Service Instruction and drill Ø0.128" holes on a 1.0" to 1.5" pitch.

**Note:** Drill a Ø1.00" (Ø25.4 mm) hole in the D4575-1 Beam to clear extension tube of collective and cutout as required for clearance of collective opening and fwd bulkhead as shown in Figure 3 of this Service Instruction.

#### Item 3.3.15 was:

If there is an existing stringer at LBL 27.33, it will need to be removed from that location. Locate D3026-1 Channel as shown in Figure 4 and transfer existing holes from the aircraft floor to the D3026-1 Channel & D3032-1 Spacer. Ensure 1.0" to 1.5" rivet pitch and add additional holes if required. If there is no existing stringer, locate D3026-1 Channel & D3032-1 Spacer as shown in Figure 4 and drill Ø0.128" holes on a 1.0" to 1.5" pitch.

#### Item 3.3.17 is:

Counter sink holes in the D3032-1 Spacer for MS20426AD4 rivets. Install D4575-1 Beam, D4575-3 Doubler, and D3032-1 Spacer to floor using MS20426AD4 rivets.

#### Item 3.3.17 was:

Counter sink holes in the D3032-1 Spacer for MS20426AD4 rivets. Install D3026-1 Channel and D3032-1 Spacer using MS20426AD4 rivets.

#### Item 3.3.22 is:

Rivet D3234-1 Doubler to D3025-1 Beam as shown in Figure 7 using MS20470AD4 rivets. Continue at step 3.3.25.

#### Item 3.3.22 was:

Rivet D3234-1 Doubler to D3025-1 Beam and D3234-3 Doubler to D3026-1 Channel as shown in Figure 7 using MS20470AD4 rivets. Continue at step 3.2.25.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY: D. Shepherd  
D. SHEPHERD (DE # 02)  
DATE: 12.11.09  
CERT. NO.: SH02-33  
ISSUE NO.: 1

|  |  |  |              |
|--|--|--|--------------|
| B  | CHANGES TO -013 KIT INSTALLATION. REF: CIR12-12. | MB                                     | 12.11.09     |
| A  | NEW ISSUE  | MB                                     | 11.12.22     |
| REV.   | DESCRIPTION                                      | BY                                     | DATE         |
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| MFG. APPR.   | N/A  | DSI 9588                               | SHEET 1 OF 6 |
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13-10-17



### 3.0 INSTALLATION CHANGES FOR D350-689-023

Section 3.9, *INSTALLATION OF D350-689-023 ENERGY ATTENUATING FLOOR PROVISIONS KIT* (pages 8 and 9 of IIN-D350-689), is changed as follows:

**Item 3.9.8 is:**

If there is an existing stringer at LBL 27.33, it will need to be removed from that location. Locate D4575-1 Beam and D4575-3 Doubler as shown in Figure 2 of this Service Instruction. Transfer drill existing holes from the aircraft floor to the D4575-1 Beam and D4575-3 Doubler. Ensure 1.0" to 1.5" rivet pitch and add additional holes if required. If there is no existing stringer, locate D4575-1 Beam and D4575-3 Doubler as shown in Figure 1 of this Service Instruction and drill Ø0.128" holes on a 1.0" to 1.5" pitch.

**Note:** Drill a Ø1.00" (Ø25.4 mm) hole in the D4575-1 Beam to clear extension tube of collective and cutout as required for clearance of collective opening and fwd bulkhead as shown in Figure 3 of this Service Instruction.

**Item 3.9.8 was:**

If there is an existing stringer at LBL 27.33, it will need to be removed from that location. Locate D3026-1 Channel as shown in Figure 4 and transfer existing holes from the aircraft floor to the D3026-1 Channel. Ensure 1.0" to 1.5" rivet pitch and add additional holes if required. If there is no existing stringer, locate D3026-1 Channel as shown in Figure 4 and drill Ø0.128" holes on a 1.0" to 1.5" pitch.

**Item 3.9.10 is:**

Attach D4575-1 Beam and D4575-3 Doubler to floor using qty (14) MS20426AD4 rivets.

**Item 3.9.10 was:**

Attach D4575-1 Channel to floor using qty (14) MS20426AD4 rivets.

**Item 3.9.12 is no longer applicable:**

~~Rivet D3234-3 Doubler to D3026-1 Channel as shown in Figure 7 using MS20470AD4 rivets.~~

**Item 3.9.12 was:**

Rivet D3234-3 Doubler to D3026-1 Channel as shown in Figure 7 using MS20470AD4 rivets.

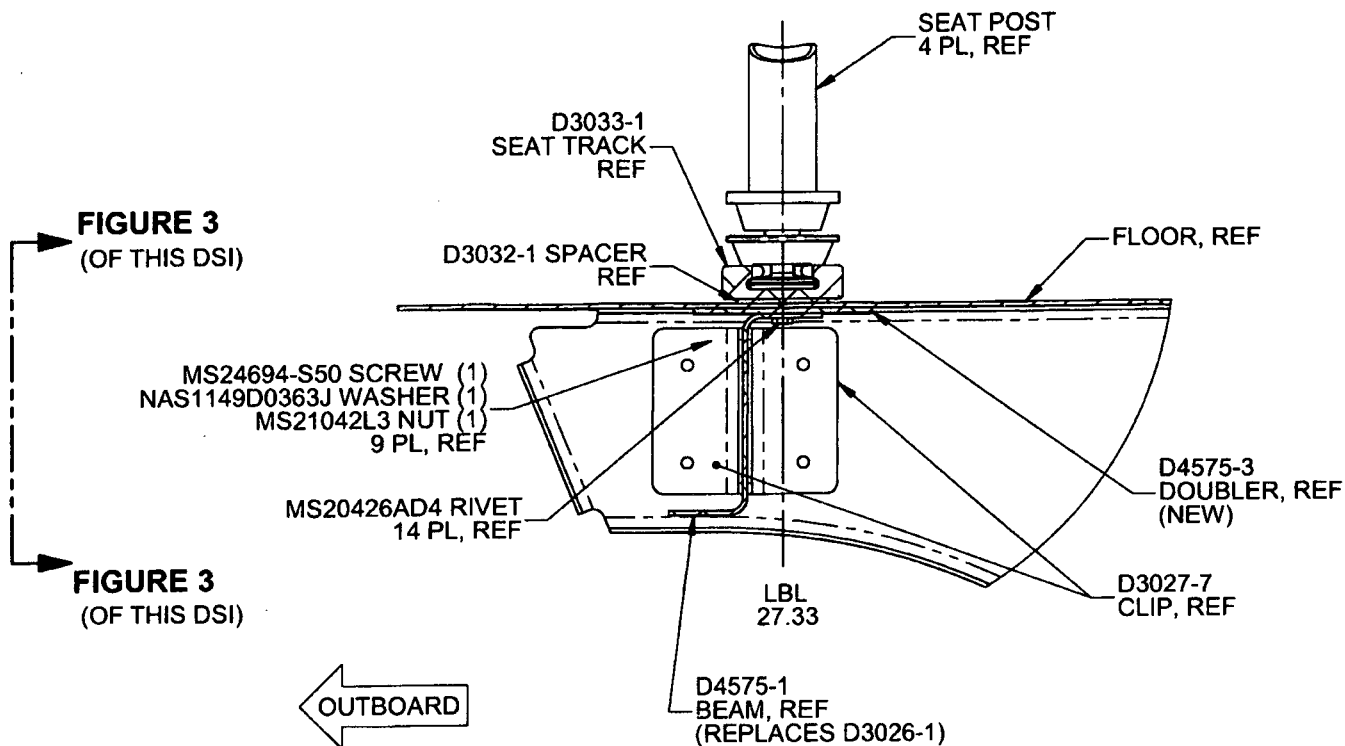
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**CROSS SECTION VIEW F-F/M-M: From Figures 5 and 7 (IIN-D350-689)**  
**CROSS SECTION VIEW F-F/M-M: From Figures 25-5 and 25-7 (ICA-D350-689)**






**FIGURE 1: UPDATES TO CROSS SECTIONS F-F AND M-M**  
 With reference to Figures 5 and 7 of IIN-D350-689  
 (Figures 25-5 and 25-7 of ICA-D350-689)

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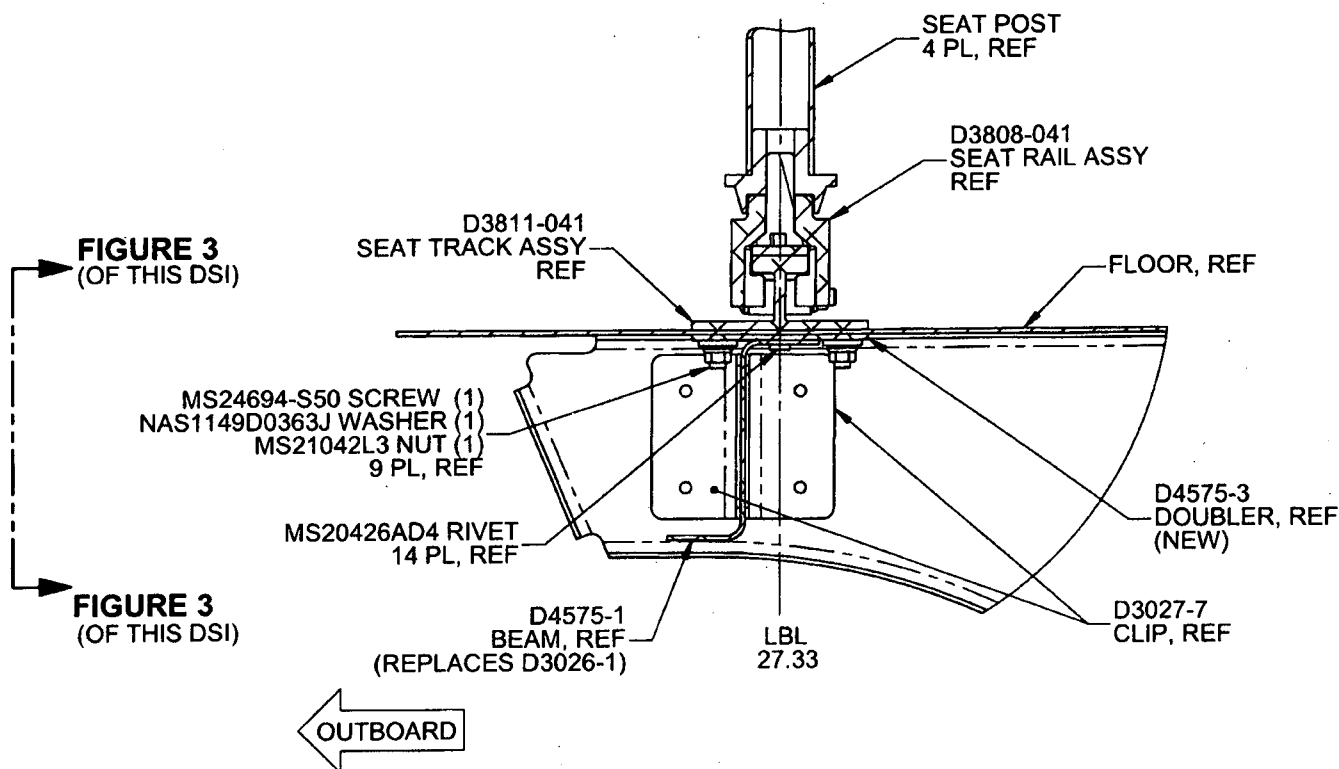
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**FIGURE 21: Cross Section View T-T from Figure 19 (IIN-D350-689)**  
**FIGURE 25-21: Cross Section View T-T from Figure 25-19 (ICA-D350-689)**

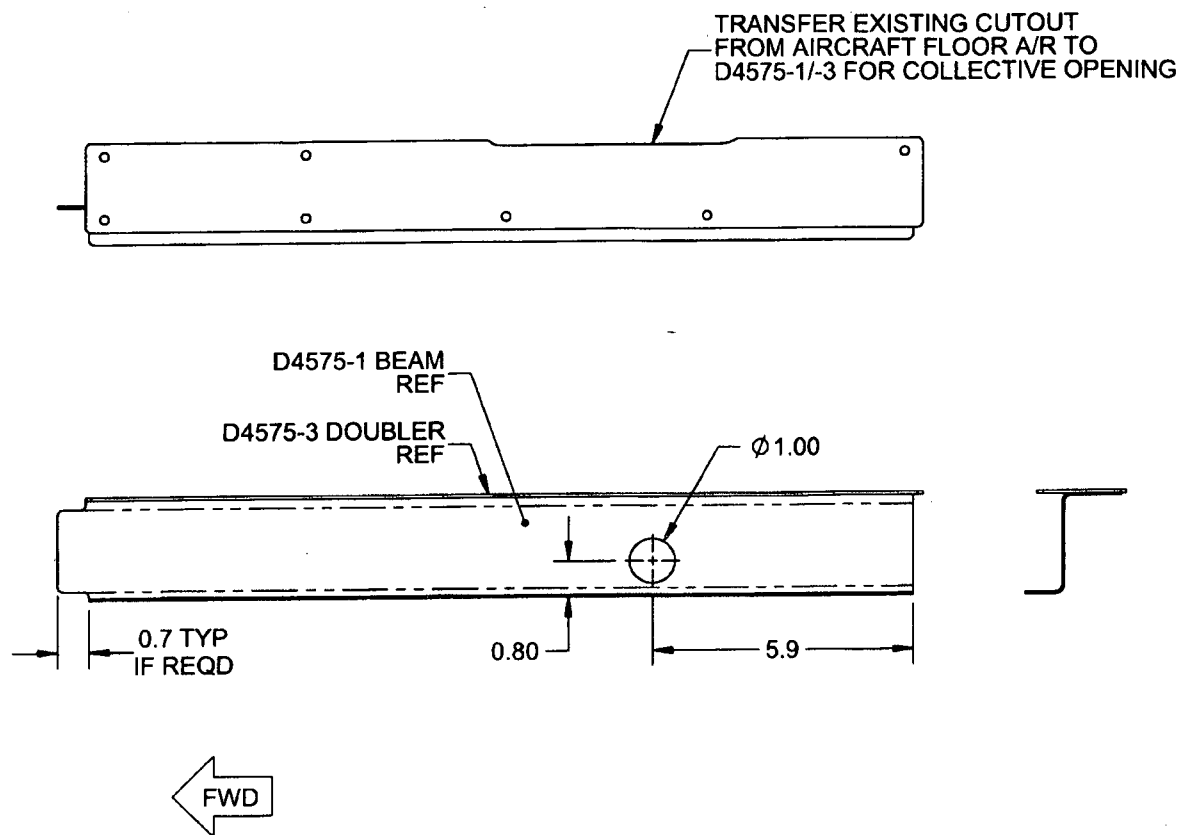
**FIGURE 2: UPDATES TO FIGURE 21 (IIN-D350-689) AND 25-21 (ICA-D350-689)**  
 With reference to Figures 19 and 20 of IIN-D350-689  
 (Figures 25-19 and 25-20 of ICA-D350-689)

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**FIGURE 3: RELIEFS ON D4575-1/-3**  
(ONLY D4575-1/-3 SHOWN FOR CLARITY)  
VIEW LOOKING INBOARD

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#### 4.0 PARTS LIST CHANGE

The parts list of D350-689-021/-023 at CHG 005/004 or later is amended as follows:

#### 5. PARTS LIST (IIN-D350-689) 25.10 PARTS LIST (ICA-D350-689)

**IS:**

| Qty<br>-011 | Qty<br>-013 | Qty<br>-015 | Qty<br>-017 | Qty<br>-019 | Qty<br>-021 | Qty<br>-023 | Qty<br>-041 | Qty<br>-043 | Part Number  | Description                                |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| X           |             |             |             |             |             |             |             |             | D350-689-011 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
| 1           | X           |             |             |             |             |             |             |             | D350-689-013 | FLOOR PROVISIONS KIT                       |
|             |             | X           |             |             |             |             |             |             | D350-689-015 | SEAT MODIFICATION KIT                      |
|             |             |             | X           |             |             |             |             |             | D350-689-017 | SHOULDER HARNESS KIT                       |
|             |             |             |             | X           |             |             |             |             | D350-689-019 | CONTROL GUARD KIT                          |
|             |             |             |             |             | X           |             |             |             | D350-689-021 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
|             |             |             |             |             | 1           | X           |             |             | D350-689-023 | ENERGY ATTENUATING FLOOR<br>PROVISIONS KIT |
| 1           |             |             |             |             |             |             | X           |             | D350-689-041 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             |             |             |             |             | 1           |             |             | X           | D350-689-043 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             |             |             |             |             |             |             |             |             | D3026-1      | CHANNEL (REMOVED)                          |
|             |             |             |             |             |             |             |             |             | D3234-3      | DOUBLER (REMOVED)                          |
|             | 1           |             |             |             |             | 1           |             |             | D4575-1      | BEAM (REPLACES D3026-1)                    |
|             | 1           |             |             |             |             | 1           |             |             | D4575-3      | DOUBLER (NEW)                              |

**WAS:**

| Qty<br>-011 | Qty<br>-013 | Qty<br>-015 | Qty<br>-017 | Qty<br>-019 | Qty<br>-021 | Qty<br>-023 | Qty<br>-041 | Qty<br>-043 | Part Number  | Description                                |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| X           |             |             |             |             |             |             |             |             | D350-689-011 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
| 1           | X           |             |             |             |             |             |             |             | D350-689-013 | FLOOR PROVISIONS KIT                       |
|             |             | X           |             |             |             |             |             |             | D350-689-015 | SEAT MODIFICATION KIT                      |
|             |             |             | X           |             |             |             |             |             | D350-689-017 | SHOULDER HARNESS KIT                       |
|             |             |             |             | X           |             |             |             |             | D350-689-019 | CONTROL GUARD KIT                          |
|             |             |             |             |             | X           |             |             |             | D350-689-021 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
|             |             |             |             |             | 1           | X           |             |             | D350-689-023 | ENERGY ATTENUATING FLOOR<br>PROVISIONS KIT |
| 1           |             |             |             |             |             |             | X           |             | D350-689-041 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             |             |             |             |             | 1           |             |             | X           | D350-689-043 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             | 1           |             |             |             |             | 1           |             |             | D3026-1      | CHANNEL                                    |
|             | 1           |             |             |             |             | 1           |             |             | D3234-3      | DOUBLER                                    |

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10850

**4. WEIGHT AND BALANCE**

The following weight and balance information is for the Dart Dual High Back Seat Installation. The weight and balance of the parts that are removed from the aircraft to perform this installation are the responsibility of the installer.

| Installation   | Weight             | LATERAL             |                            | LONGITUDINAL      |                           |
|--|--------------------|---------------------|----------------------------|-------------------|---------------------------|
|  |                    | Arm                 | Moment                     | Arm               | Moment                    |
| D350-689-011 Dual High Back Seat Installation, Fwd Position    | 27.6 lb<br>12.5 kg | -18.2 in<br>-0.46 m | -502 in-lb<br>-5.8 m-k-g   | 60.7 in<br>1.54 m | 1675 in-lb<br>19.3 m-k-g  |
| D350-689-013 Floor Provisions Kit, Fwd Position                | 2.0 lb<br>0.9 kg   | -18.2 in<br>-0.46 m | -36 in-lb<br>-0.4 m-k-g    | 60.7 in<br>1.54 m | 121 in-lb<br>1.4 m-k-g    |
| D350-689-011 Dual High Back Seat Installation, Aft Position    | 28.1 lb<br>12.7 kg | -18.2 in<br>-0.46 m | -511 in-lb<br>-5.8 m-k-g   | 63.7 in<br>1.62 m | 1790 in-lb<br>20.57 m-k-g |
| D350-689-013 Floor Provisions Kit, Aft Position                | 3.1 lb<br>1.4 kg   | -18.2 in<br>-0.46 m | -56 in-lb<br>-0.6 m-k-g    | 62.2 in<br>1.58 m | 193 in-lb<br>2.2 m-k-g    |
| D350-689-015 Seat Modification Kit                             | 1.0 lb<br>0.5 kg   | -17.2 in<br>-0.44 m | -17 in-lb<br>-0.22 m-k-g   | 60.7 in<br>1.54 m | 61 in-lb<br>0.77 m-k-g    |
| D350-689-017 Shoulder Harness, Fwd Position                    | 4.4 lb<br>2.00 kg  | -18.2 in<br>-0.46 m | -80.1 in-lb<br>-0.92 m-k-g | 60.7 in<br>1.54 m | 267 in-lb<br>3.08 m-k-g   |
| D350-689-017 Shoulder Harness, Aft Position                    | 4.4 lb<br>2.00 kg  | -18.2 in<br>-0.46 m | -80.1 in-lb<br>-0.92 m-k-g | 64.7 in<br>1.64 m | 285 in-lb<br>3.28 m-k-g   |
| D350-689-019 Control Guard, Fwd Position                       | 0.5 lb<br>0.23 kg  | -9.0 in<br>-0.23 m  | -4.5 in-lb<br>-0.05 m-k-g  | 60.7 in<br>1.54 m | 30 in-lb<br>0.35 m-k-g    |
| D350-689-019 Control Guard, Aft Position                       | 0.5 lb<br>0.23 kg  | -9.0 in<br>-0.23 m  | -4.5 in-lb<br>-0.05 m-k-g  | 64.7 in<br>1.64 m | 32 in-lb<br>0.38 m-k-g    |
| D350-689-021 Dual High Seat Back Installation, LH Fwd Position | 29.2 lb<br>13.2 kg | -18.2 in<br>-0.46 m | -531 in-lb<br>-6.1 m-k-g   | 60.7 in<br>1.54 m | 1772 in-lb<br>20.3 m-k-g  |
| D350-689-021 Dual High Seat Back Installation, LH Aft Position | 29.2 lb<br>13.2 kg | -18.2 in<br>-0.46 m | -531 in-lb<br>-6.1 m-k-g   | 64.7 in<br>1.64 m | 1889 in-lb<br>21.6 m-k-g  |
| D350-689-023 Energy Attenuating Floor Provisions Kit           | 2.5 lb<br>1.1 kg   | -18.2 in<br>-0.46 m | -46 in-lb<br>-0.5 m-k-g    | 62.2 in<br>1.58 m | 156 in-lb<br>1.7 m-k-g    |

**5. PARTS LIST**

| Qty -011 | Qty -013 | Qty -015 | Qty -017 | Qty -019 | Qty -021 | Qty -023 | Qty -041 | Qty -043 | Part Number  | Description                             |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|---|
| X        |          |          |          |          |          |          |          |          | D350-689-011 | DUAL HIGH BACK SEAT INSTALLATION, LH    |
| 1        | X        |          |          |          |          |          |          |          | D350-689-013 | FLOOR PROVISIONS KIT                    |
|          |          | X        |          |          |          |          |          |          | D350-689-015 | SEAT MODIFICATION KIT                   |
|          |          |          | X        |          |          |          |          |          | D350-689-017 | SHOULDER HARNESS KIT                    |
|          |          |          |          | X        |          |          |          |          | D350-689-019 | CONTROL GUARD KIT                       |
|          |          |          |          |          | X        |          |          |          | D350-689-021 | DUAL HIGH BACK SEAT INSTALLATION, LH    |
|          |          |          |          |          | 1        | X        |          |          | D350-689-023 | ENERGY ATTENUATING FLOOR PROVISIONS KIT |
| 1        |          |          |          |          |          |          | X        |          | D350-689-041 | DUAL HIGH BACK SEAT ASSEMBLY            |
|          |          |          |          |          | 1        |          |          | X        | D350-689-043 | DUAL HIGH BACK SEAT ASSEMBLY            |
|          |          |          |          |          |          |          | 2        | 2        | D3016-041    | SEAT FRAME ASSEMBLY                     |
|          |          |          |          |          |          |          | 1        | 1        | D3017-041    | BACK FRAME ASSEMBLY                     |
| 1        |          |          |          |          | 1        |          |          |          | D3018-1      | SEAT CUSHION                            |
| 1        |          |          |          |          | 1        |          |          |          | D3019-1      | BACK CUSHION                            |
|          |          |          |          |          |          |          | 1        | 1        | D3021-041    | TUBE ASSEMBLY                           |
|          |          |          |          |          |          |          | 1        | 1        | D3022-1      | SEAT PAN                                |
|          |          |          |          |          |          |          | 1        | 1        | D3023-1      | BACK PANEL                              |
|          |          |          |          |          |          |          | 3        | 3        | D3024-1      | SPACER                                  |
|          |          |          |          |          |          |          |          |          | D3025-1      | BEAM                                    |

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Revision: B

Date: 11.07.22

| Qty<br>-011 | Qty<br>-013 | Qty<br>-015 | Qty<br>-017 | Qty<br>-019 | Qty<br>-021 | Qty<br>-023 | Qty<br>-041 | Qty<br>-043 | Part Number   | Description             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------------------|
|             | 1           |             |             |             |             | 1           |             |             | D3026-1       | CHANNEL                 |
|             | 1           |             |             |             |             |             |             |             | D3027-1       | CLIP                    |
|             | 1           |             |             |             |             |             |             |             | D3027-3       | CLIP                    |
|             | 1           |             |             |             |             |             |             |             | D3027-5       | CLIP                    |
|             | 4           |             |             |             |             | 4           |             |             | D3027-7       | CLIP                    |
|             |             |             |             |             |             |             | 4           |             | D3028-1       | STUD                    |
|             |             | 2           |             |             |             |             | 2           |             | D3029-1       | SPRING                  |
|             |             | 2           |             |             |             |             | 2           |             | D3030-1       | LOCK                    |
|             |             |             |             |             |             |             | 2           | 2           | D3031-1       | LOOP                    |
|             | 1           |             |             |             |             |             |             |             | D3032-1       | SPACER                  |
|             | 2           | 1           |             |             |             |             |             |             | D3033-1       | SEAT TRACK              |
|             |             | 4           |             |             |             |             |             |             | D3059-1       | STUD                    |
|             |             | 4           |             |             |             |             |             |             | D3060-1       | BUSHING                 |
|             |             | 4           |             |             |             |             |             |             | D3061-1       | RADIUS BLOCK            |
|             |             |             |             | 1           |             |             |             |             | D3084-3       | STRUT                   |
|             | 1           |             |             |             |             |             |             |             | D3234-1       | DOUBLER                 |
|             | 1           |             |             |             |             | 1           |             |             | D3234-3       | DOUBLER                 |
|             | 2           |             |             |             |             |             |             | 1           | D3234-5       | SPACER                  |
|             |             |             |             |             |             |             |             | 2           | D3808-041     | SEAT RAIL ASSEMBLY      |
|             |             |             |             |             |             |             |             | 4           | D3809-1       | SLIDING BLOCK           |
|             |             |             |             |             |             | 1           |             |             | D3811-041     | SEAT TRACK ASSEMBLY     |
|             |             |             | 2           |             |             |             |             |             | D4071-041     | SHOULDER HARDNESS ASSY  |
|             |             |             |             |             |             |             | 3           | 3           | AN3-12A       | BOLT                    |
|             |             |             |             | 1           |             |             |             |             | AN4-12A       | BOLT                    |
|             |             |             |             | 1           |             |             |             |             | AN4-20A       | BOLT                    |
|             |             |             | 2           |             |             |             |             |             | AN5-4A        | BOLT                    |
|             |             |             |             |             |             |             | 40          | 40          | MS20600AD4W2  | RIVET                   |
|             |             |             |             |             |             |             | 6           | 6           | MS20600AD4W3  | RIVET                   |
|             |             |             |             |             |             | 9           | 17          | 17          | MS21042L3     | NUT (OR MS21042-3)      |
|             |             |             |             | 2           |             |             | 6           | 6           | MS21042L4     | NUT (OR MS21042-4)      |
|             |             |             | 2           |             |             |             |             |             | MS21042L5     | NUT (OR MS21042-5)      |
|             | 12          | 4           |             |             |             |             |             |             | MS21059L3     | NUTPLATE                |
|             | 5           | 4           |             |             |             |             |             | 4           | MS24693-S272  | SCREW                   |
|             | 2           | 1           |             |             |             |             |             |             | MS24693-S273  | SCREW                   |
|             |             |             |             |             |             |             |             | 8           | MS24694-S3    | SCREW                   |
|             |             |             |             |             |             | 9           |             |             | MS24694-S50   | SCREW                   |
|             |             |             |             |             |             |             |             | 4           | MS24694-S148  | SCREW                   |
|             | 6           | 3           |             |             |             |             |             |             | MS27039-1-10  | SCREW                   |
|             |             |             |             |             |             |             | 4           | 4           | MS27039-1-17  | SCREW                   |
|             |             |             |             |             |             |             | 6           | 6           | MS27039-1-19  | SCREW                   |
|             |             |             |             |             |             |             | 6           | 6           | MS27039-4-21  | SCREW                   |
|             | 6           | 3           |             |             |             |             | 17          | 17          | NAS1149D0332J | WASHER (OR AN960JD10L)  |
|             |             |             |             |             |             | 9           |             |             | NAS1149D0363J | WASHER (OR AN960JD10)   |
|             |             |             |             | 8           |             |             |             |             | NAS1149D0416J | WASHER (OR AN960JD416L) |
|             |             |             |             |             |             |             | 6           | 6           | NAS1149D0432J | WASHER (OR AN960JD416)  |
|             |             |             | 4           |             |             |             |             |             | NAS1149D0516J | WASHER (OR AN960JD516L) |
|             |             | 4           |             |             |             |             |             |             | NAS1149D0563J | WASHER (OR AN960JD516)  |
|             |             |             |             | 2           |             |             |             |             | NAS43DD4-46N  | SPACER                  |

#### 4.0 PARTS LIST CHANGE

The parts list of D350-689-021/-023 at CHG 005/004 or later is amended as follows:

#### 5. PARTS LIST (IIN-D350-689) 25.10 PARTS LIST (ICA-D350-689)

IS:

| Qty<br>-011 | Qty<br>-013 | Qty<br>-015 | Qty<br>-017 | Qty<br>-019 | Qty<br>-021 | Qty<br>-023 | Qty<br>-041 | Qty<br>-043 | Part Number  | Description                                |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| X           |             |             |             |             |             |             |             |             | D350-689-011 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
| 1           | X           |             |             |             |             |             |             |             | D350-689-013 | FLOOR PROVISIONS KIT                       |
|             |             | X           |             |             |             |             |             |             | D350-689-015 | SEAT MODIFICATION KIT                      |
|             |             |             | X           |             |             |             |             |             | D350-689-017 | SHOULDER HARNESS KIT                       |
|             |             |             |             | X           |             |             |             |             | D350-689-019 | CONTROL GUARD KIT                          |
|             |             |             |             |             | X           |             |             |             | D350-689-021 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
|             |             |             |             |             | 1           | X           |             |             | D350-689-023 | ENERGY ATTENUATING FLOOR<br>PROVISIONS KIT |
| 1           |             |             |             |             |             |             | X           |             | D350-689-041 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             |             |             |             |             | 1           |             |             | X           | D350-689-043 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             |             |             |             |             |             |             |             |             | D3026-1      | CHANNEL (REMOVED)                          |
|             |             |             |             |             |             |             |             |             | D3234-3      | DOUBLER (REMOVED)                          |
|             |             |             |             |             |             | 1           |             |             | D4575*1      | BEAM (REPLACES D3026-1)                    |
|             |             |             |             |             |             | 1           |             |             | D4575*3      | DOUBLER (NEW)                              |

WAS:

| Qty<br>-011 | Qty<br>-013 | Qty<br>-015 | Qty<br>-017 | Qty<br>-019 | Qty<br>-021 | Qty<br>-023 | Qty<br>-041 | Qty<br>-043 | Part Number  | Description                                |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| X           |             |             |             |             |             |             |             |             | D350-689-011 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
| 1           | X           |             |             |             |             |             |             |             | D350-689-013 | FLOOR PROVISIONS KIT                       |
|             |             | X           |             |             |             |             |             |             | D350-689-015 | SEAT MODIFICATION KIT                      |
|             |             |             | X           |             |             |             |             |             | D350-689-017 | SHOULDER HARNESS KIT                       |
|             |             |             |             | X           |             |             |             |             | D350-689-019 | CONTROL GUARD KIT                          |
|             |             |             |             |             | X           |             |             |             | D350-689-021 | DUAL HIGH BACK SEAT<br>INSTALLATION, LH    |
|             |             |             |             |             | 1           | X           |             |             | D350-689-023 | ENERGY ATTENUATING FLOOR<br>PROVISIONS KIT |
| 1           |             |             |             |             |             |             | X           |             | D350-689-041 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             |             |             |             |             | 1           |             |             | X           | D350-689-043 | DUAL HIGH BACK SEAT ASSEMBLY               |
|             | 1           |             |             |             |             | 1           |             |             | D3026-1      | CHANNEL                                    |
|             | 1           |             |             |             |             | 1           |             |             | D3234-3      | DOUBLER                                    |

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *D. Shepherd*  
D. SHEPHERD (DE # 02)

DATE: 12.11.09  
CERT. NO.: SH02-33  
ISSUE NO.: 1

|            |           |  |              |
|------------|-----------|--|--------------|
| DESIGN     | <i>B</i>  | <b>DART AEROSPACE LTD</b>  |              |
| DRAWN      | <i>B</i>  | HAWKESBURY, ONTARIO, CANADA  |              |
| CHECKED    | <i>TH</i> | DRAWING NO.  | REV. B       |
| MFG. APPR. | N/A       | DSI 9588   | SHEET 6 OF 6 |
| APPROVED   | <i>TH</i> | TITLE  | SCALE        |
| DE APPR.   | <i>TH</i> | INSTALLATION CHANGE  | NTS          |
| DATE       | 12.11.09  | <small>COPYRIGHT © 2011 BY DART AEROSPACE LTD<br/>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br/>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br/>WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |

Work Order ID 108507

October-17-13 1:41:46 PM

\*108507\*

Page 1

Item ID: D350-689-013

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Floor Provisions

Start Date: 10/17/13 Start Qty: 1.00 \*1\*

Cust Item ID:

Required Date: 10/17/13 Req'd Qty: 1.00 \*1\*

Customer:

Reference:

Approvals: Process Plan: MLJ Date: 13-10-17 Tooling:

Date:

Run Start \*NR1\*

QC: Date: SPC (Y/N):

Date:

Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr     | Revision Nbr |
|--------------|--------------|
| DSI9588      | B            |
| IIN D350-689 | B            |

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Pick Kit

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Packaging

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Packaging

1X DAS 13-12-3  
28  
9-89